

Data Validation Checklist

Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster

Project No: 15268508.20000
 Job ID.: 680-85534-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 12/05/2012
 Date: 1/14/2013
 Date: 2/11/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 660-132425/1-A: Phenanthrene @ 3.96 J µg/Kg (RL 8.0, MDL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 120412-RB-Bowls+Spoons (680-85402-21).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (120412-RB-Bowls+Spoons) was collected during the week of 12/03/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85402-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			The phenanthrene blank contamination action level (BCAL) is 19.8 µg/Kg (3.96 x 5). Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount of phenanthrene found in the sample.	U
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> • FM0165V-CSD (680-85534-40) is the field duplicate of FM0165V-CS (680-85534-39) • FM0165W-CSD (680-85534-42) is the field duplicate of FM0165W-CS (680-85534-41) • FM0165Y-CSD (680-85534-45) is the field duplicate of FM0165Y-CS (680-85534-44) • HP0022A-CSD (680-85534-50) is the field duplicate of HP0022A-CS (680-85534-49) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			According to the original Form Vs included in the data package, SW-846 Method 8270C ion abundance criteria were not met; however, a review of raw data indicates that alternate tuning criteria were used by the laboratory (i.e., EPA Method 525). Ion abundance criteria were met per EPA Method 525. Revised Form Vs were provided by the laboratory on 02/11/2013 (refer to Attachment C).	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument?	✓			<ul style="list-style-type: none"> • Instrument ID: BSMA5973 • Initial Calibration: 11/26/2012 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 				<ul style="list-style-type: none"> • ICV: 11/26/12 @ 15:35 • CCV: 12/13/12 @ 11:21 & 12/14/12 @ 12:13 • Instrument ID: BSMC5973 • Initial Calibration: 11/29/2012 • ICV: 11/29/12 @ 13:25 • CCV: 12/18/12 @ 11:34 	
19. Were calibration results within laboratory/project specifications?	✓				
<ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with no individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ◦ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ◦ If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R $>$ Upper Control Limit (UCL) and J/R-flag results when %R $<$ Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> Prep Batch 132425: 680-85534-53 (HP0067A-CS), MS/MSD Prep Batch 132496: 680-85534-37 (FM0165T-CS), MS/MSD Prep Batch 132474: 680-85534-18 (Batch sample), MS/MSD. Lab sample 680-85534-18 is a project-specific sample (FM0165A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-85534-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. MS and MSD %R<10: J and R Flag positive and ND results, respectively MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results MS and MSD R% >UCL (or 140): J-Flag positive results 		✓		<p>FM0165T-CS (680-85534-37):</p> <ul style="list-style-type: none"> Benzo[a] pyrene @ 35 and 42%R (49-130), J-Flag result, because low recoveries are indicative of a low bias. Pyrene @ 39 and 43%R (44-130). J-Flag result, because low recoveries are indicative of a low bias. <p>HP0067A-CS (680-85534-53):</p> <ul style="list-style-type: none"> Benzo[a]pyrene @ 42 and 46%R (49-130). J-Flag result, because low recoveries are indicative of a low bias. Chrysene @ 40 and 50%R (41-130). Qualification of data is not warranted, because the MSD %R met laboratory control limits. 	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results					
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment D (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment E**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 R The sample results are unusable. The analyte may or may not be present in the sample.
 U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
 UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85534-32	FM0165O-CS	Solid	12/05/12 11:09	12/07/12 09:24
680-85534-33	FM0165P-CS	Solid	12/05/12 11:17	12/07/12 09:24
680-85534-34	FM0165Q-CS	Solid	12/05/12 13:08	12/07/12 09:24
680-85534-35	FM0165R-CS	Solid	12/05/12 13:15	12/07/12 09:24
680-85534-36	FM0165S-CS	Solid	12/05/12 13:32	12/07/12 09:24
680-85534-37	FM0165T-CS	Solid	12/05/12 13:36	12/07/12 09:24
680-85534-38	FM0165U-CS	Solid	12/05/12 13:50	12/07/12 09:24
680-85534-39	FM0165V-CS	Solid	12/05/12 13:54	12/07/12 09:24
680-85534-40	FM0165V-CSD	Solid	12/05/12 13:54	12/07/12 09:24
680-85534-41	FM0165W-CS	Solid	12/05/12 14:15	12/07/12 09:24
680-85534-42	FM0165W-CSD	Solid	12/05/12 14:15	12/07/12 09:24
680-85534-43	FM0165X-CS	Solid	12/05/12 14:21	12/07/12 09:24
680-85534-44	FM0165Y-CS	Solid	12/05/12 14:51	12/07/12 09:24
680-85534-45	FM0165Y-CSD	Solid	12/05/12 14:51	12/07/12 09:24
680-85534-46	FM0165Z-CS	Solid	12/05/12 14:55	12/07/12 09:24
680-85534-47	FM0165AA-CS	Solid	12/05/12 14:57	12/07/12 09:24
680-85534-48	FM0165BB-CS	Solid	12/05/12 15:11	12/07/12 09:24
680-85534-49	HP0022A-CS	Solid	12/05/12 13:45	12/07/12 09:24
680-85534-50	HP0022A-CSD	Solid	12/05/12 13:45	12/07/12 09:24
680-85534-53	HP0067A-CS	Solid	12/05/12 15:00	12/07/12 09:24

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0165Y-CS 680-85534-44	RL	FM0165Y-CSD 680-85534-45	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action		
Acenaphthylene	20	J	57	14	J	63	µg/kg	300	NA	6	120	None, absolute difference ≤ 2x Avg RL
Anthracene	50		12	27		13	µg/kg	62.5	NA	23	25	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	150		11	87		13	µg/kg	60	53	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	120		15	69		16	µg/kg	77.5	NA	51	31	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	170		17	130		19	µg/kg	90	27	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	120		29	91		32	µg/kg	152.5	NA	29	61	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	110		11	27		13	µg/kg	60	NA	83	24	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	220		13	160		14	µg/kg	67.5	32	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	55		29	42		32	µg/kg	152.5	NA	13	61	None, absolute difference ≤ 2x Avg RL
Fluoranthene	280		29	160		32	µg/kg	152.5	55	NA	NA	J/UJ-flag, RPD > 50%
Indeno(1,2,3-cd)pyrene	110		29	64		32	µg/kg	152.5	NA	46	61	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	160		57	130		63	µg/kg	300	NA	30	120	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	180		57	140		63	µg/kg	300	NA	40	120	None, absolute difference ≤ 2x Avg RL
Naphthalene	210		57	160		63	µg/kg	300	NA	50	120	None, absolute difference ≤ 2x Avg RL
Phenanthrene	260		11	200		13	µg/kg	60	26	NA	NA	None, RPD ≤ 50%
Pyrene	270		29	150		32	µg/kg	152.5	NA	120	61	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0165W-CS 680-85534-41		RL	FM0165W-CSD 680-85534-42		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	16	J	55		17	J	56	µg/kg	277.5	NA	1	111	None, absolute difference ≤ 2x Avg RL
Anthracene	23		12		37		12	µg/kg	60	NA	14	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	100		11		120		11	µg/kg	55	18	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	60		14		96		14	µg/kg	70	NA	36	28	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	120		17		170		17	µg/kg	85	34	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	73		28		92		28	µg/kg	140	NA	19	56	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	40		11		65		11	µg/kg	55	NA	25	22	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	110		12		170		12	µg/kg	60	43	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	29		28		49		28	µg/kg	140	NA	20	56	None, absolute difference ≤ 2x Avg RL
Fluoranthene	160		28		220		28	µg/kg	140	32	NA	NA	None, RPD ≤ 50%
Indeno(1,2,3-cd)pyrene	50		28		87		28	µg/kg	140	NA	37	56	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	88	55			140	56	µg/kg	277.5	NA	52	111	None, absolute difference ≤ 2x Avg RL	
2-Methylnaphthalene	120	55			160	56	µg/kg	277.5	NA	40	111	None, absolute difference ≤ 2x Avg RL	
Naphthalene	180	55			230	56	µg/kg	277.5	NA	50	111	None, absolute difference ≤ 2x Avg RL	
Phenanthrene	180		11		220		11	µg/kg	55	20	NA	NA	None, RPD ≤ 50%
Pyrene	150		28		220		28	µg/kg	140	38	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0165V-CS 680-85534-39	RL	FM0165V-CSD 680-85534-40	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action			
Acenaphthylene	11	J	55		14	J	55	μg/kg	275	NA	3	110	None, absolute difference ≤ 2x Avg RL
Anthracene	27		11		25		12	μg/kg	57.5	NA	2	23	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	91		11		83		11	μg/kg	55	9	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	57		14		64		14	μg/kg	70	NA	7	28	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	110		17		98		17	μg/kg	85	12	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	63		27		64		28	μg/kg	137.5	NA	1	55	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	33		11		41		11	μg/kg	55	NA	8	22	None, absolute difference ≤ 2x Avg RL
Chrysene	62		12		110		12	μg/kg	60	56	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	34		27		27	J	28	μg/kg	137.5	NA	7	55	None, absolute difference ≤ 2x Avg RL
Fluoranthene	140		27		140		28	μg/kg	137.5	0	NA	NA	None, RPD ≤ 50%
Fluorene	8.4	J	27		9.1	J	28	μg/kg	137.5	NA	0.7	55	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	42		27		30		28	μg/kg	137.5	NA	12	55	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	39	J	55		38	J	55	μg/kg	275	NA	1	110	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	47	J	55		47	J	55	μg/kg	275	NA	0	110	None, absolute difference ≤ 2x Avg RL
Naphthalene	70		55		67		55	μg/kg	275	NA	3	110	None, absolute difference ≤ 2x Avg RL
Phenanthrene	96		11		100		11	μg/kg	55	4	NA	NA	None, RPD ≤ 50%
Pyrene	83		27		75		28	μg/kg	137.5	NA	8	55	None, absolute difference ≤ 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

μg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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Evaluation of Field Duplicate Results

Attachment B

Analyte	HP0022A-CS 680-85534-49	RL	HP0022A-CSD 680-85534-50	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action			
Acenaphthylene	66	54		33	53	µg/kg	267.5	NA	33	107	None, absolute difference ≤ 2x Avg RL		
Anthracene	78	11		62	11	µg/kg	55	23	NA	NA	None, RPD ≤ 50%		
Benzo(a)anthracene	180	11		170	11	µg/kg	55	6	NA	NA	None, RPD ≤ 50%		
Benzo(a)pyrene	160	14		130	14	µg/kg	70	21	NA	NA	None, RPD ≤ 50%		
Benzo(b)fluoranthene	280	16		230	16	µg/kg	80	20	NA	NA	None, RPD ≤ 50%		
Benzo(g,h,i)perylene	150	27		140	27	µg/kg	135	7	NA	NA	None, RPD ≤ 50%		
Benzo(k)fluoranthene	83	11		96	11	µg/kg	55	15	NA	NA	None, RPD ≤ 50%		
Chrysene	220	12		220	12	µg/kg	60	0	NA	NA	None, RPD ≤ 50%		
Dibenzo(a,h)anthracene	50	27		63	27	µg/kg	135	NA	13	54	None, absolute difference ≤ 2x Avg RL		
Fluoranthene	370	27		330	27	µg/kg	135	11	NA	NA	None, RPD ≤ 50%		
Fluorene	22	J	27		17	J	27	µg/kg	135	NA	5	54	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	120	27		130	27	µg/kg	135	NA	10	54	None, absolute difference ≤ 2x Avg RL		
1-Methylnaphthalene	66	54		69	53	µg/kg	267.5	NA	3	107	None, absolute difference ≤ 2x Avg RL		
2-Methylnaphthalene	74	54		85	53	µg/kg	267.5	NA	11	107	None, absolute difference ≤ 2x Avg RL		
Naphthalene	69	54		91	53	µg/kg	267.5	NA	22	107	None, absolute difference ≤ 2x Avg RL		
Phenanthrene	200	11		180	11	µg/kg	55	11	NA	NA	None, RPD ≤ 50%		
Pyrene	370	27		180	27	µg/kg	135	69	NA	NA	J/UJ-flag, RPD > 50%		

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

DATA PACKAGE ADDENDUM

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: 1AK26002.D DFTPP Injection Date: 11/26/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 13:33
Analysis Batch No.: 131833

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	22.5
68	Less than 2.0 % of mass 69	0.5 (1.4)1
69	Mass 69 relative abundance	33.2
70	Less than 2.0 % of mass 69	0.6 (1.8)1
127	10.0 - 80.0 % of mass 442	33.6
197	Less than 2.0 % of mass 198	1.3 (1.7)2
198	Greater than 50.0 % of mass 442	76.0
199	5.0 - 9.0 % of mass 198	5.5 (7.3)2
275	10.0 - 60.0 % of mass 442	24.3
365	Greater than 1.0 % of mass 442	3.7
441	Present but less than mass 443	12.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	18.0

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131833/3	1AK26003.D	11/26/2012	13:48
	IC 660-131833/4	1AK26004.D	11/26/2012	14:04
	IC 660-131833/5	1AK26005.D	11/26/2012	14:19
	IC 660-131833/6	1AK26006.D	11/26/2012	14:34
	ICIS 660-131833/7	1AK26007.D	11/26/2012	14:50
	IC 660-131833/8	1AK26008.D	11/26/2012	15:05
	IC 660-131833/9	1AK26009.D	11/26/2012	15:20
	ICV 660-131833/10	1AK26010.D	11/26/2012	15:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: 1AL13002.D DFTPP Injection Date: 12/13/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 11:07
Analysis Batch No.: 132552

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	20.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	31.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	31.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.9
275	10.0 - 60.0 % of mass 198	31.3
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	25.8
442	Greater than 50.0 % of mass 198	150.8
443	15.0 - 24.0 % of mass 442	33.8 (22.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132552/3	1AL13003.D	12/13/2012	11:21
	MB 660-132425/1-A	1AL13005.D	12/13/2012	11:58
	LCS 660-132425/2-A	1AL13006.D	12/13/2012	12:13
FM0165W-CS	680-85534-41	1AL13017.D	12/13/2012	15:00
FM0165W-CSD	680-85534-42	1AL13018.D	12/13/2012	15:15
FM0165X-CS	680-85534-43	1AL13019.D	12/13/2012	15:30
FM0165Y-CS	680-85534-44	1AL13020.D	12/13/2012	15:46
FM0165Y-CSD	680-85534-45	1AL13021.D	12/13/2012	16:01
FM0165Z-CS	680-85534-46	1AL13022.D	12/13/2012	16:16
FM0165AA-CS	680-85534-47	1AL13023.D	12/13/2012	16:31
FM0165BB-CS	680-85534-48	1AL13024.D	12/13/2012	16:46
HP0022A-CS	680-85534-49	1AL13025.D	12/13/2012	17:01
HP0067A-CS	680-85534-53	1AL13026.D	12/13/2012	17:17
HP0067A-CS MS	680-85534-53 MS	1AL13027.D	12/13/2012	17:32
HP0067A-CS MSD	680-85534-53 MSD	1AL13028.D	12/13/2012	17:47

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: 1AL14002.D DFTPP Injection Date: 12/14/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 11:58
Analysis Batch No.: 132527

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	24.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.9
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	25.1
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.6
275	10.0 - 60.0 % of mass 198	31.9
365	Greater than 1.0 % of mass 198	5.0
441	Present but less than mass 443	34.5
442	Greater than 50.0 % of mass 198	152.8
443	15.0 - 24.0 % of mass 442	35.1 (23.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132527/3	1AL14003.D	12/14/2012	12:13
	MB 660-132474/1-A	1AL14005.D	12/14/2012	12:45
	LCS 660-132474/2-A	1AL14006.D	12/14/2012	13:00
FM01650-CS	680-85534-32	1AL14013.D	12/14/2012	14:47
FM0165P-CS	680-85534-33	1AL14014.D	12/14/2012	15:02
FM0165Q-CS	680-85534-34	1AL14015.D	12/14/2012	15:17
FM0165R-CS	680-85534-35	1AL14016.D	12/14/2012	15:32
	MB 660-132496/1-A	1AL14022.D	12/14/2012	17:03
FM0165S-CS	680-85534-36	1AL14029.D	12/14/2012	18:50
FM0165T-CS	680-85534-37	1AL14030.D	12/14/2012	19:05
FM0165T-CS MS	680-85534-37 MS	1AL14031.D	12/14/2012	19:20
FM0165T-CS MSD	680-85534-37 MSD	1AL14032.D	12/14/2012	19:35
FM0165U-CS	680-85534-38	1AL14033.D	12/14/2012	19:50
FM0165V-CS	680-85534-39	1AL14034.D	12/14/2012	20:06
FM0165V-CSD	680-85534-40	1AL14035.D	12/14/2012	20:21
HP0022A-CSD	680-85534-50	1AL14036.D	12/14/2012	20:36

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: 1CK29002.D DFTPP Injection Date: 11/29/2012
Instrument ID: BSMC5973 DFTPP Injection Time: 10:59
Analysis Batch No.: 131957

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	27.7
68	Less than 2.0 % of mass 69	0.3 (0.7)1
69	Mass 69 relative abundance	37.9
70	Less than 2.0 % of mass 69	0.2 (0.6)1
127	10.0 - 80.0 % of mass 198	44.0
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.8
275	10.0 - 60.0 % of mass 198	23.2
365	Greater than 1.0 % of mass 198	3.6
441	Present but less than mass 443	11.7
442	Greater than 50.0 % of mass 198	81.2
443	15.0 - 24.0 % of mass 442	16.8 (20.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131957/3	1CK29003.D	11/29/2012	11:16
	IC 660-131957/4	1CK29004.D	11/29/2012	11:34
	IC 660-131957/5	1CK29005.D	11/29/2012	11:53
	IC 660-131957/6	1CK29006.D	11/29/2012	12:11
	ICIS 660-131957/7	1CK29007.D	11/29/2012	12:29
	IC 660-131957/8	1CK29008.D	11/29/2012	12:48
	IC 660-131957/9	1CK29009.D	11/29/2012	13:06
	ICV 660-131957/10	1CK29010.D	11/29/2012	13:25

FORM V

GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa

Job No.: 680-85534-3

SDG No.: 68085534-2

Lab File ID: 1CL18002.D

DFTPP Injection Date: 12/18/2012

Instrument ID: BSMC5973

DFTPP Injection Time: 11:17

Analysis Batch No.: 132652

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	27.6
68	Less than 2.0 % of mass 69	0.6 (1.8)1
69	Mass 69 relative abundance	34.4
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 442	37.0
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	91.6
199	5.0 - 9.0 % of mass 198	6.5 (7.1)2
275	10.0 - 60.0 % of mass 442	20.7
365	Greater than 1.0 % of mass 442	2.7
441	Present but less than mass 443	14.7
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.8

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132652/3	1CL18003.D	12/18/2012	11:34
	LCS 660-132496/2-A	1CL18005.D	12/18/2012	12:10

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: IAL13002.D DFTPP Injection Date: 12/13/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 11:07
Analysis Batch No.: 132552

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	20.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	31.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	31.7
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.9
275	10.0 - 60.0 % of mass 198	31.3
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	25.8
442	Greater than 50.0 % of mass 198	150.8
443	15.0 - 24.0 % of mass 442	33.8 (22.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132552/3	IAL13003.D	12/13/2012	11:21
	MB 660-132425/1-A	IAL13005.D	12/13/2012	11:58
	LCS 660-132425/2-A	IAL13006.D	12/13/2012	12:13
FM0165W-CS	680-85534-41	IAL13017.D	12/13/2012	15:00
FM0165W-CSD	680-85534-42	IAL13018.D	12/13/2012	15:15
FM0165X-CS	680-85534-43	IAL13019.D	12/13/2012	15:30
FM0165Y-CS	680-85534-44	IAL13020.D	12/13/2012	15:46
FM0165Y-CSD	680-85534-45	IAL13021.D	12/13/2012	16:01
FM0165Z-CS	680-85534-46	IAL13022.D	12/13/2012	16:16
FM0165AA-CS	680-85534-47	IAL13023.D	12/13/2012	16:31
FM0165BB-CS	680-85534-48	IAL13024.D	12/13/2012	16:46
HP0022A-CS	680-85534-49	IAL13025.D	12/13/2012	17:01
HP0067A-CS	680-85534-53	IAL13026.D	12/13/2012	17:17
HP0067A-CS MS	680-85534-53 MS	IAL13027.D	12/13/2012	17:32
HP0067A-CS MSD	680-85534-53 MSD	IAL13028.D	12/13/2012	17:47

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85534-3
SDG No.: 68085534-2
Lab File ID: 1AL14002.D DFTPP Injection Date: 12/14/2012
Instrument ID: BSMA5973 DFTPP Injection Time: 11:58
Analysis Batch No.: 132527

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	24.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.9
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	25.1
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.6
275	10.0 - 60.0 % of mass 198	31.9
365	Greater than 1.0 % of mass 198	5.0
441	Present but less than mass 443	34.5
442	Greater than 50.0 % of mass 198	152.8
443	15.0 - 24.0 % of mass 442	35.1 (23.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132527/3	1AL14003.D	12/14/2012	12:13
	MB 660-132474/1-A	1AL14005.D	12/14/2012	12:45
	LCS 660-132474/2-A	1AL14006.D	12/14/2012	13:00
FM01650-CS	680-85534-32	1AL14013.D	12/14/2012	14:47
FM0165P-CS	680-85534-33	1AL14014.D	12/14/2012	15:02
FM0165Q-CS	680-85534-34	1AL14015.D	12/14/2012	15:17
FM0165R-CS	680-85534-35	1AL14016.D	12/14/2012	15:32
	MB 660-132496/1-A	1AL14022.D	12/14/2012	17:03
FM0165S-CS	680-85534-36	1AL14029.D	12/14/2012	18:50
FM0165T-CS	680-85534-37	1AL14030.D	12/14/2012	19:05
FM0165T-CS MS	680-85534-37 MS	1AL14031.D	12/14/2012	19:20
FM0165T-CS MSD	680-85534-37 MSD	1AL14032.D	12/14/2012	19:35
FM0165U-CS	680-85534-38	1AL14033.D	12/14/2012	19:50
FM0165V-CS	680-85534-39	1AL14034.D	12/14/2012	20:06
FM0165V-CSD	680-85534-40	1AL14035.D	12/14/2012	20:21
HP0022A-CSD	680-85534-50	1AL14036.D	12/14/2012	20:36

ATTACHMENT D

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
SDG: 68085534-2

Job ID: 680-85534-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85534-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/07/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0165O-CS (680-85534-32), FM0165P-CS (680-85534-33), FM0165Q-CS (680-85534-34), FM0165R-CS (680-85534-35), FM0165S-CS (680-85534-36), FM0165T-CS (680-85534-37), FM0165U-CS (680-85534-38), FM0165V-CS (680-85534-39), FM0165V-CSD (680-85534-40), FM0165W-CS (680-85534-41), FM0165W-CSD (680-85534-42), FM0165X-CS (680-85534-43), FM0165Y-CS (680-85534-44), FM0165Y-CSD (680-85534-45), FM0165Z-CS (680-85534-46), FM0165AA-CS (680-85534-47), FM0165BB-CS (680-85534-48), HP0022A-CS (680-85534-49), HP0022A-CSD (680-85534-50) and HP0067A-CS (680-85534-53) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/12/2012, 12/13/2012 and 12/14/2012 and analyzed on 12/13/2012 and 12/14/2012.

Sample HP0067A-CS (680-85534-53)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-132425/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Benzo[a]pyrene and Pyrene recovered outside the recovery criteria low for the MS/MSD of sample FM0165T-CS (680-85534-37) in batch 660-132527.

Benzo[a]pyrene and Chrysene recovered outside the recovery criteria low for the MS/MSD of sample HP0067A-CS (680-85534-53) in batch 660-132552.

Refer to the QC report for details.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT E

QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165O-CS

Date Collected: 12/05/12 11:09
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-32
 Matrix: Solid
 Percent Solids: 69.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Acenaphthylene	58	U	58	7.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Anthracene	31		12	6.0	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Benzo[a]anthracene	140		12	5.6	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Benzo[a]pyrene	87		15	7.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Benzo[b]fluoranthene	160		18	8.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Benzo[g,h,i]perylene	94		29	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Benzo[k]fluoranthene	43		12	5.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Chrysene	240		13	6.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Dibenz(a,h)anthracene	51		29	5.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Fluoranthene	230		29	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Fluorene	30		29	5.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Indeno[1,2,3-cd]pyrene	57		29	10	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
1-Methylnaphthalene	160		58	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
2-Methylnaphthalene	180		58	10	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Naphthalene	290		58	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Phenanthrene	280		12	5.6	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Pyrene	160		29	5.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	45		30 - 130				12/13/12 17:56	12/14/12 14:47	1

Client Sample ID: FM0165P-CS

Date Collected: 12/05/12 11:17
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-33
 Matrix: Solid
 Percent Solids: 72.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Acenaphthylene	76		55	6.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Anthracene	120		12	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Benzo[a]anthracene	220		11	5.4	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Benzo[a]pyrene	160		14	7.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Benzo[b]fluoranthene	290		17	8.4	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Benzo[g,h,i]perylene	150		28	6.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Benzo[k]fluoranthene	100		11	5.0	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Chrysene	350		12	6.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Dibenz(a,h)anthracene	69		28	5.7	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Fluoranthene	400		28	5.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Fluorene	28	U	28	5.7	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Indeno[1,2,3-cd]pyrene	110		28	9.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
1-Methylnaphthalene	140		55	6.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
2-Methylnaphthalene	170		55	9.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Naphthalene	260		55	6.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Phenanthrene	270		11	5.4	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Pyrene	520		28	5.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	72		30 - 130				12/13/12 17:56	12/14/12 15:02	1

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Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165Q-CS

Date Collected: 12/05/12 13:08
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-34

Matrix: Solid
 Percent Solids: 76.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Acenaphthylene	52	U	52	6.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Anthracene	80		11	5.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Benzo[a]anthracene	320		10	5.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Benzo[a]pyrene	230		14	6.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Benzo[b]fluoranthene	400		16	8.0	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Benzo[g,h,i]perylene	230		26	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Benzo[k]fluoranthene	150		10	4.7	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Chrysene	570		12	5.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Dibenz(a,h)anthracene	94		26	5.4	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Fluoranthene	670		26	5.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Fluorene	26	U	26	5.4	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Indeno[1,2,3-cd]pyrene	180		26	9.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
1-Methylnaphthalene	480		52	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
2-Methylnaphthalene	550		52	9.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Naphthalene	850		52	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Phenanthrene	790		10	5.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Pyrene	730		26	4.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:17	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		75			30 - 130		12/13/12 17:56	12/14/12 15:17	1

Client Sample ID: FM0165R-CS

Date Collected: 12/05/12 13:15
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-35

Matrix: Solid
 Percent Solids: 69.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	70	J	140	29	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Acenaphthylene	58	U	58	7.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Anthracene	72		12	6.1	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Benzo[a]anthracene	260		12	5.6	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Benzo[a]pyrene	170		15	7.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Benzo[b]fluoranthene	330		18	8.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Benzo[g,h,i]perylene	160		29	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Benzo[k]fluoranthene	89		12	5.2	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Chrysene	420		13	6.5	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Dibenz(a,h)anthracene	79		29	5.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Fluoranthene	510		29	5.8	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Fluorene	40		29	5.9	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Indeno[1,2,3-cd]pyrene	100		29	10	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
1-Methylnaphthalene	340		58	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
2-Methylnaphthalene	400		58	10	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Naphthalene	670		58	6.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Phenanthrene	660		12	5.6	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Pyrene	490		29	5.3	ug/Kg	⊗	12/13/12 17:56	12/14/12 15:32	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		65			30 - 130		12/13/12 17:56	12/14/12 15:32	1

1 Sample results have been qualified in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165S-CS

Date Collected: 12/05/12 13:32
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-36

Matrix: Solid
 Percent Solids: 76.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Acenaphthylene	10	J	52	6.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Anthracene	16		11	5.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Benzo[a]anthracene	61		10	5.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Benzo[a]pyrene	43		14	6.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Benzo[b]fluoranthene	93		16	8.0	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Benzo[g,h,i]perylene	34		26	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Benzo[k]fluoranthene	30		10	4.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Chrysene	98		12	5.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Dibenz(a,h)anthracene	17	J	26	5.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Fluoranthene	140		26	5.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Fluorene	8.8	J	26	5.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Indeno[1,2,3-cd]pyrene	27		26	9.3	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
1-Methylnaphthalene	47	J	52	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
2-Methylnaphthalene	61		52	9.3	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Naphthalene	160		52	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Phenanthrene	120		10	5.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Pyrene	68		26	4.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 18:50	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		71			30 - 130		12/14/12 10:25	12/14/12 18:50	1

Client Sample ID: FM0165T-CS

Date Collected: 12/05/12 13:36
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-37

Matrix: Solid
 Percent Solids: 77.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Acenaphthylene	52	U	52	6.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Anthracene	29		11	5.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Benzo[a]anthracene	130		10	5.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Benzo[a]pyrene	100	X J	13	6.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Benzo[b]fluoranthene	190		16	7.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Benzo[g,h,i]perylene	90		26	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Benzo[k]fluoranthene	47		10	4.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Chrysene	210		12	5.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Dibenz(a,h)anthracene	59		26	5.3	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Fluoranthene	230		26	5.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Fluorene	26	U	26	5.3	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Indeno[1,2,3-cd]pyrene	68		26	9.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
1-Methylnaphthalene	120		52	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
2-Methylnaphthalene	150		52	9.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Naphthalene	220		52	5.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Phenanthrene	220		10	5.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Pyrene	120	X J	26	4.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 19:05	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		74			30 - 130		12/14/12 10:25	12/14/12 19:05	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
SDG: 68085534-2

Client Sample ID: FM0165U-CS

Date Collected: 12/05/12 13:50
Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-38

**Matrix: Solid
Content Solids: 72.5**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Acenaphthylene	17	J	55	6.9	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Anthracene	38		12	5.8	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Benzo[a]anthracene	150		11	5.4	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Benzo[a]pyrene	110		14	7.1	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Benzo[b]fluoranthene	190		17	8.4	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Benzo[g,h,i]perylene	120		27	6.0	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Benzo[k]fluoranthene	63		11	4.9	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Chrysene	180		12	6.2	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Dibenz(a,h)anthracene	33		27	5.6	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Fluoranthene	280		27	5.5	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Fluorene	27	U	27	5.6	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Indeno[1,2,3-cd]pyrene	100		27	9.8	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
1-Methylnaphthalene	69		55	6.0	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
2-Methylnaphthalene	86		55	9.8	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Naphthalene	130		55	6.0	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Phenanthrene	150		11	5.4	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Pyrene	140		27	5.1	ug/Kg	●	12/14/12 10:25	12/14/12 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	57		30 - 130				12/14/12 10:25	12/14/12 19:50	1

Client Sample ID: FM0165V-CS

Date Collected: 12/05/12 13:54
Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-39

Matrix: Solid Ant Solids: 73.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Acenaphthylene	11	J	55	6.8	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Anthracene	27		11	5.7	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Benzo[a]anthracene	91		11	5.3	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Benzo[a]pyrene	57		14	7.1	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Benzo[b]fluoranthene	110		17	8.3	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Benzo[g,h,i]perylene	63		27	6.0	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Benzo[k]fluoranthene	33		11	4.9	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Chrysene	62	J	12	6.1	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Dibenz(a,h)anthracene	34		27	5.6	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Fluoranthene	140		27	5.5	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Fluorene	8.4	J	27	5.6	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Indeno[1,2,3-cd]pyrene	42		27	9.7	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
1-Methylnaphthalene	39	J	55	6.0	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
2-Methylnaphthalene	47	J	55	9.7	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Naphthalene	70		55	6.0	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Phenanthrene	96		11	5.3	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Pyrene	83		27	5.1	ug/Kg	☀	12/14/12 10:25	12/14/12 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	69		30 - 130				12/14/12 10:25	12/14/12 20:06	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165V-CSD

Date Collected: 12/05/12 13:54
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-40

Matrix: Solid
 Percent Solids: 72.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Acenaphthylene	14	J	55	6.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Anthracene	25		12	5.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Benzo[a]anthracene	83		11	5.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Benzo[a]pyrene	64		14	7.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Benzo[b]fluoranthene	98		17	8.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Benzo[g,h,i]perylene	64		28	6.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Benzo[k]fluoranthene	41		11	5.0	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Chrysene	110	J	12	6.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Dibenz(a,h)anthracene	27	J	28	5.6	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Fluoranthene	140		28	5.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Fluorene	9.1	J	28	5.6	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Indeno[1,2,3-cd]pyrene	30		28	9.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
1-Methylnaphthalene	38	J	55	6.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
2-Methylnaphthalene	47	J	55	9.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Naphthalene	67		55	6.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Phenanthrene	100		11	5.4	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Pyrene	75		28	5.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:21	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		69			30 - 130		12/14/12 10:25	12/14/12 20:21	1

Client Sample ID: FM0165W-CS

Date Collected: 12/05/12 14:15
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-41

Matrix: Solid
 Percent Solids: 72.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Acenaphthylene	16	J	55	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Anthracene	23		12	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Benzo[a]anthracene	100		11	5.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Benzo[a]pyrene	60	J	14	7.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Benzo[b]fluoranthene	120		17	8.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Benzo[g,h,i]perylene	73		28	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Benzo[k]fluoranthene	40	J	11	5.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Chrysene	110		12	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Dibenz(a,h)anthracene	29		28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Fluoranthene	160		28	5.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Fluorene	28	U	28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Indeno[1,2,3-cd]pyrene	50		28	9.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
1-Methylnaphthalene	88		55	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
2-Methylnaphthalene	120		55	9.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Naphthalene	180		55	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Phenanthrene	180	B	11	5.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Pyrene	150		28	5.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:00	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		72			30 - 130		12/12/12 16:13	12/13/12 15:00	1

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site.

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165W-CSD

Date Collected: 12/05/12 14:15
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-42

Matrix: Solid
 Percent Solids: 71.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Acenaphthylene	17	J	56	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Anthracene	37		12	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Benzo[a]anthracene	120		11	5.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Benzo[a]pyrene	96	J	14	7.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Benzo[b]fluoranthene	170		17	8.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Benzo[g,h,i]perylene	92		28	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Benzo[k]fluoranthene	65	J	11	5.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Chrysene	170		12	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Dibenz(a,h)anthracene	49		28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Fluoranthene	220		28	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Fluorene	28	U	28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Indeno[1,2,3-cd]pyrene	87		28	9.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
1-Methylnaphthalene	140		56	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
2-Methylnaphthalene	160		56	9.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Naphthalene	230		56	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Phenanthrene	220	B	11	5.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Pyrene	220		28	5.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:15	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		78			30 - 130		12/12/12 16:13	12/13/12 15:15	1

Client Sample ID: FM0165X-CS

Date Collected: 12/05/12 14:21
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-43

Matrix: Solid
 Percent Solids: 79.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Acenaphthylene	36	J	50	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Anthracene	83		11	5.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Benzo[a]anthracene	450		10	4.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Benzo[a]pyrene	450		13	6.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Benzo[b]fluoranthene	660		15	7.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Benzo[g,h,i]perylene	380		25	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Benzo[k]fluoranthene	320		10	4.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Chrysene	620		11	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Dibenz(a,h)anthracene	120		25	5.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Fluoranthene	920		25	5.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Fluorene	25	U	25	5.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Indeno[1,2,3-cd]pyrene	360		25	9.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
1-Methylnaphthalene	140		50	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
2-Methylnaphthalene	180		50	9.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Naphthalene	200		50	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Phenanthrene	450	B	10	4.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Pyrene	930		25	4.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:30	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		96			30 - 130		12/12/12 16:13	12/13/12 15:30	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165Y-CS

Date Collected: 12/05/12 14:51
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-44

Matrix: Solid
 Percent Solids: 70.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Acenaphthylene	20	J	57	7.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Anthracene	50		12	6.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Benzo[a]anthracene	150	J	11	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Benzo[a]pyrene	120	J	15	7.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Benzo[b]fluoranthene	170		17	8.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Benzo[g,h,i]perylene	120		29	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Benzo[k]fluoranthene	110	J	11	5.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Chrysene	220		13	6.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Dibenz(a,h)anthracene	55		29	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Fluoranthene	280	J	29	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Fluorene	29	U	29	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Indeno[1,2,3-cd]pyrene	110		29	10	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
1-Methylnaphthalene	160		57	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
2-Methylnaphthalene	180		57	10	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Naphthalene	210		57	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Phenanthrene	260	✗	11	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Pyrene	270	J	29	5.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 15:46	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	60			30 - 130			12/12/12 16:13	12/13/12 15:46	1

Client Sample ID: FM0165Y-CSD

Date Collected: 12/05/12 14:51
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-45

Matrix: Solid
 Percent Solids: 63.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Acenaphthylene	14	J	63	7.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Anthracene	27		13	6.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Benzo[a]anthracene	87	J	13	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Benzo[a]pyrene	69	J	16	8.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Benzo[b]fluoranthene	130		19	9.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Benzo[g,h,i]perylene	91		32	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Benzo[k]fluoranthene	27	J	13	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Chrysene	160		14	7.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Dibenz(a,h)anthracene	42		32	6.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Fluoranthene	160	J	32	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Fluorene	32	U	32	6.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Indeno[1,2,3-cd]pyrene	64		32	11	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
1-Methylnaphthalene	130		63	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
2-Methylnaphthalene	140		63	11	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Naphthalene	160		63	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Phenanthrene	200	✗	13	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Pyrene	150	J	32	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:01	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	54			30 - 130			12/12/12 16:13	12/13/12 16:01	1

1 2 3 4 5 6 7 8 9 10 11 12
 12th Avenue Removal Site, Birmingham, Alabama, Sampling Event QAPP for the 35th Avenue Industrial Use Property

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165Z-CS

Date Collected: 12/05/12 14:55
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-46

Matrix: Solid
 Percent Solids: 58.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Acenaphthylene	36	J	68	8.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Anthracene	67		14	7.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Benzo[a]anthracene	220		14	6.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Benzo[a]pyrene	160		18	8.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Benzo[b]fluoranthene	280		21	10	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Benzo[g,h,i]perylene	190		34	7.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Benzo[k]fluoranthene	75		14	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Chrysene	330		15	7.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Dibenz(a,h)anthracene	76		34	7.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Fluoranthene	380		34	6.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Fluorene	47		34	7.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Indeno[1,2,3-cd]pyrene	130		34	12	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
1-Methylnaphthalene	290		68	7.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
2-Methylnaphthalene	330		68	12	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Naphthalene	400		68	7.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Phenanthrene	480	✗	14	6.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Pyrene	330		34	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:16	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		76		30 - 130			12/12/12 16:13	12/13/12 16:16	1

Client Sample ID: FM0165AA-CS

Date Collected: 12/05/12 14:57
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-47

Matrix: Solid
 Percent Solids: 71.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Acenaphthylene	16	J	56	7.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Anthracene	32		12	5.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Benzo[a]anthracene	110		11	5.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Benzo[a]pyrene	70		15	7.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Benzo[b]fluoranthene	130		17	8.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Benzo[g,h,i]perylene	61		28	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Benzo[k]fluoranthene	37		11	5.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Chrysene	140		13	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Dibenz(a,h)anthracene	31		28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Fluoranthene	120		28	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Fluorene	28	U	28	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Indeno[1,2,3-cd]pyrene	53		28	9.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
1-Methylnaphthalene	130		56	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
2-Methylnaphthalene	140		56	9.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Naphthalene	250		56	6.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Phenanthrene	210	✗	11	5.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Pyrene	77		28	5.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:31	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		63		30 - 130			12/12/12 16:13	12/13/12 16:31	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: FM0165BB-CS

Date Collected: 12/05/12 15:11
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-48

Matrix: Solid
 Percent Solids: 63.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Acenaphthylene	38	J	63	7.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Anthracene	74		13	6.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Benzo[a]anthracene	270		13	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Benzo[a]pyrene	230		16	8.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Benzo[b]fluoranthene	380		19	9.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Benzo[g,h,i]perylene	210		32	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Benzo[k]fluoranthene	130		13	5.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Chrysene	320		14	7.1	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Dibenz(a,h)anthracene	81		32	6.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Fluoranthene	540		32	6.3	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Fluorene	27	J	32	6.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Indeno[1,2,3-cd]pyrene	190		32	11	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
1-Methylnaphthalene	140		63	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
2-Methylnaphthalene	170		63	11	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Naphthalene	200		63	6.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Phenanthrene	310	✓	13	6.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Pyrene	320		32	5.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 16:46	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		76			30 - 130		12/12/12 16:13	12/13/12 16:46	1

Client Sample ID: HP0022A-CS

Date Collected: 12/05/12 13:45
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-49

Matrix: Solid
 Percent Solids: 74.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Acenaphthylene	66		54	6.7	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Anthracene	78		11	5.6	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Benzo[a]anthracene	180		11	5.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Benzo[a]pyrene	160		14	7.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Benzo[b]fluoranthene	280		16	8.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Benzo[g,h,i]perylene	150		27	5.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Benzo[k]fluoranthene	83		11	4.8	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Chrysene	220		12	6.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Dibenz(a,h)anthracene	50		27	5.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Fluoranthene	370		27	5.4	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Fluorene	22	J	27	5.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Indeno[1,2,3-cd]pyrene	120		27	9.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
1-Methylnaphthalene	66		54	5.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
2-Methylnaphthalene	74		54	9.5	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Naphthalene	69		54	5.9	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Phenanthrene	200	✓	11	5.2	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Pyrene	370	J	27	5.0	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:01	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		71			30 - 130		12/12/12 16:13	12/13/12 17:01	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85534-3
 SDG: 68085534-2

Client Sample ID: HP0022A-CSD

Date Collected: 12/05/12 13:45
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-50

Matrix: Solid
 Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Acenaphthylene	33	J	53	6.7	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Anthracene	62		11	5.6	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Benzo[a]anthracene	170		11	5.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Benzo[a]pyrene	130		14	6.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Benzo[b]fluoranthene	230		16	8.1	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Benzo[g,h,i]perylene	140		27	5.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Benzo[k]fluoranthene	96		11	4.8	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Chrysene	220		12	6.0	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Dibenz(a,h)anthracene	63		27	5.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Fluoranthene	330		27	5.3	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Fluorene	17	J	27	5.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Indeno[1,2,3-cd]pyrene	130		27	9.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
1-Methylnaphthalene	69		53	5.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
2-Methylnaphthalene	85		53	9.5	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Naphthalene	91		53	5.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Phenanthrene	180		11	5.2	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Pyrene	180	J	27	4.9	ug/Kg	⊗	12/14/12 10:25	12/14/12 20:36	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>			75				12/14/12 10:25	12/14/12 20:36	1

Client Sample ID: HP0067A-CS

Date Collected: 12/05/12 15:00
 Date Received: 12/07/12 09:24

Lab Sample ID: 680-85534-53

Matrix: Solid
 Percent Solids: 78.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Acenaphthylene	200	U	200	26	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Anthracene	41	J	43	21	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Benzo[a]anthracene	110		41	20	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Benzo[a]pyrene	98	J	53	27	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Benzo[b]fluoranthene	100		62	31	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Benzo[g,h,i]perylene	110		100	22	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Benzo[k]fluoranthene	83		41	18	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Chrysene	130	F	46	23	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Dibenz(a,h)anthracene	57	J	100	21	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Fluoranthene	140		100	20	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Fluorene	100	U	100	21	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Indeno[1,2,3-cd]pyrene	85	J	100	36	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
1-Methylnaphthalene	54	J	200	22	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
2-Methylnaphthalene	61	J	200	36	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Naphthalene	56	J	200	22	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Phenanthrene	98	B	41	20	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Pyrene	190		100	19	ug/Kg	⊗	12/12/12 16:13	12/13/12 17:17	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>			70				12/12/12 16:13	12/13/12 17:17	4

TestAmerica Savannah